

Title (en)
Video decompression apparatus and method.

Title (de)
Bilddekomppressionsvorrichtung und -verfahren.

Title (fr)
Appareil et méthode de décompression d'images.

Publication
EP 0594338 A3 19941012 (EN)

Application
EP 93308129 A 19931012

Priority
US 96512992 A 19921022

Abstract (en)
[origin: EP0594338A2] Disclosed is an apparatus and a method for decompressing video segments including a sequence of differential frames. Selected scaling of frame resolution and color depth upon playback on a playback platform is simplified by the process. A frame header may indicate the computational complexity of decompression of information for a frame, allowing selection of a scale for output resolution and another scale for color depth. Decompression proceeds by retrieving a frame from the compressed video stream in elementary units. Elementary units relate to non-overlapping, contiguous rectangular areas of the frame to be decompressed. An elementary unit is characterized by type, including an unchanged type, a homogeneous type, a pattern type and a predetermined pattern type. For a retrieved elementary unit of the unchanged type, an output pointer to a display buffer is moved by an elementary unit scaled by the output resolution scale. For a retrieved elementary unit of the homogeneous type, a color retrieved from the compressed video stream is applied to an area in the display buffer corresponding to an elementary unit scaled by the output resolution scale. For a retrieved elementary unit of the predetermined pattern type, a pattern from a table of patterns is retrieved using an index from the compressed video segment as an address. Two colors for the pattern are also retrieved and applied to the pattern. The result is written to an area in the display buffer corresponding to an elementary unit scaled by the output resolution scale. For a retrieved elementary unit of the pattern type, a pattern is retrieved from the compressed video stream. Two colors are retrieved and applied to the pattern and the result is written to an area in the display buffer corresponding to an elementary unit scaled by the output resolution scale. <IMAGE>

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H04N 7/13

IPC 8 full level
H04N 7/32 (2006.01); **G06T 9/00** (2006.01); **H04N 1/41** (2006.01); **H04N 7/26** (2006.01); **H04N 7/36** (2006.01); **H04N 7/54** (2006.01); **H04N 11/04** (2006.01); **H04N 19/593** (2014.01); **H04N 19/94** (2014.01)

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